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## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Patent Number	7,020,125
Issue Date	March 28, 2006
First Named Inventor	Donald L. Schilling
Application Number	09/878,586
Filing Date	June 11, 2001
Attorney Docket Number	I-2-0053.3US

### ENCLOSURES (Check all that apply)

- |   |  |  |
|---|--|--|
| <input checked="" type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input type="checkbox"/> Amendment/Reply<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input type="checkbox"/> Information Disclosure Statement<br><br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Reply to Missing Parts/ Incomplete Application<br><input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation<br><input type="checkbox"/> Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) _____<br><input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC<br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):<br><b>Request for Certificate of Correction and Form PTO/SB/44</b> |
|---|--|--|

Remarks

**Certificate**

OCT 26 2006

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

**of Correction**

Firm Name	VOLPE AND KOENIG, P.C.		
Signature			
Printed name	Robert D. Leonard		
Date	October 20, 2006	Reg. No.	57,204

### CERTIFICATE OF TRANSMISSION/MAILING

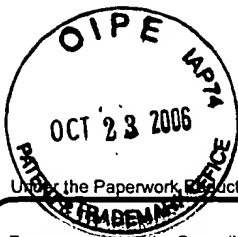
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature			
Typed or printed name	Robert D. Leonard	Date	October 20, 2006

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/17 (01-06)

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Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

**FEE TRANSMITTAL**  
**For FY 2006**☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$) 100.00**Complete if Known**

Application Number	09/878,586
Filing Date	June 11, 2001
First Named Inventor	Donald L. Schilling
Examiner Name	Dang T. Ton
Art Unit	2666
Attorney Docket No.	I-2-0053.3US

**METHOD OF PAYMENT** (check all that apply)☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_☒ Deposit Account Deposit Account Number: 09-0435 Deposit Account Name: InterDigital Communications Corporation

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**FEE CALCULATION** (All the fees below are due upon filing or may be subject to a surcharge.)**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES****Fee Description**

Each claim over 20 (including Reissues)

Fee (\$)	Small Entity Fee (\$)
50	25
200	100
360	180

Each independent claim over 3 (including Reissues)

Multiple dependent claims

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
-	=	x	= 0

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
-	=	x	= 0

HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
-	- 100 =	/ 50 =	(round up to a whole number) x	=

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): Request for Certificate of Corrections**Fees Paid (\$)**

100.00

**SUBMITTED BY**

Signature		Registration No. (Attorney/Agent) 57,204	Telephone 215-568-6400
Name (Print/Type)	Robert D. Leonard	Date October 20, 2006	

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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OCT 27 2006



**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In the **PATENT** of:

Donald L. Schilling

**Patent No.:** 7,020,125

**Issued:** March 28, 2006

**Appln. No.:** 09/878,586

**Filed:** June 11, 2001

For: BROADBAND CDMA OVERLAY  
SYSTEM AND METHOD

Our File: I-2-0053.3US

Date: October 20, 2006

**REQUEST FOR CERTIFICATE OF CORRECTION**

Certificate of Corrections Branch  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

A Certificate of Correction under 35 U.S.C. §§ 254, 255 and 37 C.F.R. §§1.322, 1.323 is requested for U.S. Patent No. 7,020,125. Correction of the following errors is requested.

**ON THE FACE PAGE**

At section (56), U.S. PATENT DOCUMENTS, page 2, left column, line 37, delete "4,894,842 A 1/1990 Broekhoven" and insert therefor --4,894,842 A 1/1990 Broekhoven et al.--.

10/24/2006 MGE BREM1 00000013 090435 7020125  
01 FC:1811 100.00 DA

OCT 27 2006

**IN THE ABSTRACT**

At section (57), ABSTRACT, page 1, right column, line 4, after the word "signal" delete "notche" and insert therefore --notches--.

At section (57), ABSTRACT, page 1, right column, line 7, after the word "adjacent", delete "tot he" and insert therefor --to the--.

**IN THE SPECIFICATION**

At column 1, lines 4 & 5, delete "BROADBAND CDMA OVERLAY SYSTEM AND METHOD".

At section (57), ABSTRACT, page 1, right column, line 4, after the word "signal" delete "notche" and insert therefore --notches--.

At column 2, line 30, before the word "selected", delete "tot he" and insert therefor --to the--.

At column 3, line 57, after the word "user", delete "uses" and insert therefor --using--.

At column 3, line 58, after the word "user", delete "uses" and insert therefor --using--.

At column 8, line 56, after the word "receiver", delete "is".

At column 12, line 62, after the words "dB and", delete "reduce" and insert therefor --reduces--.

At column 13, line 13, after the word "between", delete " $-\tau$  and  $\tau$ ," and insert therefor --  $-\pi$  and  $\pi$ ,--.

At column 13, line 27, after the words "value of", delete "is  $\phi_m$ " and insert therefor -- $\phi_m$  is--.

At column 13, line 33, delete equation and insert therefor

$$\begin{aligned} -v_o = T_b d_o + \sqrt{2P_c} T_b \sum_{i=1}^{n_1} \cos \Theta_i \frac{1}{T_b} \int_b^{T_b} c_o(t) c_i(t-\tau_i) dt + \\ \sqrt{2P_A} T_b \sum_{j=1}^{n_2} \frac{1}{T_b} \int_b^{T_b} c_o(t) \cos \phi_{mj}(t) + \phi_j) dt --. \end{aligned}$$

At column 13, line 54, delete equation and insert therefor

$$-I_1 \sqrt{2P_c} \sum_{i=1}^{n_1} \cos \Theta_i \int_b^{T_b} c_o(t) c_i(t-\tau_i) dt --.$$

At column 13, line 61, delete equation and insert therefor

$$-I_1^2 = \frac{1}{2}(2P_c) \left[ \sum_{i=1}^{n_1} \int_b^{T_b} c_o(t) c_i(t-\tau_i) dt \right]^2 --.$$

At column 14, line 20, after the word "illustrate", delete "of".

At column 14, line 38, of equation, delete " $\int_c$ " and insert therefor --  $\int_b^c$  --.

At column 14, line 65, after the word "assumes", delete " $c_i(t)=\sin [\pi t/(T_c)]$ " and insert therefor --  $c_i(t)=\sin [\pi t/(T_c)]$ --.

**Patentee:** Donald L. Schilling  
**Patent No.:** 7,020,125

At column 15, line 3, of equation, delete element " $\frac{\pi T_i}{T_c}$ " and insert therefor  $-\frac{\pi \tau_i}{T_c}-$ .

At column 15, line 20, of equation, delete element " $(t_i)$ " and insert therefor  $-(t)-$ .

At column 15, line 25, after the word "If", delete " $c'_i(t) = 1 - \cos[2\pi t/(T_c)]$ " and insert therefor  $-\ c'_i(t) = 1 - \cos[2\pi t/(T_c)]-$ .

At column 15, line 27, after the words "power in", delete " $I_j$ " and insert therefor  $-\ I_i-$ .

At column 16, lines 56 & 57, after the words "with a", delete " $BER=10^{-2}$ " and insert therefor  $-\ BER=10^{-2}-$ .

At column 17, line 52, before the word "base", delete "spectrums" and insert therefor  $-\text{spectrum's}-$ .

At column 17, line 65, after the word "For", delete "a" and insert therefor  $-\text{an}-$ .

At column 18, line 31, after the first use of the word "equation", delete "from the equation".

At column 18, line 67, after the word "band", delete "become" and insert therefor  $-\text{becomes}-$ .

At column 19, line 5, after the word "greater", delete "then" and insert therefor  $-\text{than}-$ .

At column 19, line 21, after the word "higher", delete "then" and insert therefor  $-\text{than}-$ .

OCT 27 2006

**Patentee:** Donald L. Schilling  
**Patent No.:** 7,020,125

At column 19, line 24, after the word "station", insert --is--.

At column 19, line 52, before the word "ratio", delete "interfere" and insert therefor --interference--.

At column 20, line 7, after the word "filter", delete "333" and insert therefor --333--.

#### **IN THE CLAIMS**

At claim 2, column 21, line 9, after the word "band" delete "used" and insert therefor --user--.

**Patentee:** Donald L. Schilling  
**Patent No.:** 7,020,125

**REMARKS**


Patentee believes that the above errors are of such a nature as to justify the issuance of a Certificate of Correction. Patentee has enclosed a completed Certificate of Correction Form PTO/SB/44.

Since at least one of the errors was caused by Applicant, please charge the surcharge fee of \$100.00 to the Deposit Account of InterDigital Communications Corporation, Deposit Account No. 09-0435.

Patentee respectfully requests that the Certificate of Correction be issued.

Respectfully submitted,

Donald L. Schilling

By   
Robert D. Leonard  
Registration No. 57,204  
(215) 568-6400

Volpe and Koenig, P.C.  
United Plaza, Suite 1600  
30 South 17th Street  
Philadelphia, PA 19103

RDL/dcb

OCT 27 2006



**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**Page 1 of 5

PATENT NO. : 7,020,125  
APPLICATION NO.: 09/878,586  
ISSUE DATE : March 28, 2006  
INVENTOR(S) : Donald L. Schilling

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**ON THE FACE PAGE**

At section (56), U.S. PATENT DOCUMENTS, page 2, left column, line 37, delete "4,894,842 A 1/1990 Broekhoven" and insert therefor --4,894,842 A 1/1990 Broekhoven et al.--.

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At column 1, lines 4 & 5, delete "BROADBAND CDMA OVERLAY SYSTEM AND METHOD".

At section (57), ABSTRACT, page 1, right column, line 4, after the word "signal" delete "notche" and insert therefore --notches--.

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Volpe and Koenig, P.C.  
United Plaza, Suite 1600  
30 South 17th Street  
Philadelphia, PA 19103

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**OCT 27 2006**

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 2 of 5

PATENT NO. : 7,020,125  
APPLICATION NO.: 09/878,586  
ISSUE DATE : March 28, 2006  
INVENTOR(S) : Donald L. Schilling

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At column 2, line 30, before the word "selected", delete "tot he" and insert therefor --to the--.

At column 3, line 57, after the word "user", delete "uses" and insert therefor --using--.

At column 3, line 58, after the word "user", delete "uses" and insert therefor --using--.

At column 8, line 56, after the word "receiver", delete "is".

At column 12, line 62, after the words "dB and", delete "reduce" and insert therefor --reduces--.

At column 13, line 13, after the word "between", delete "- $\tau$  and  $\tau$ ," and insert therefor -- $-\pi$  and  $\pi$ ,--.

At column 13, line 27, after the words "value of", delete "is  $\phi_m$ " and insert therefor -- $\phi_m$  is--.

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30 South 17th Street  
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# UNITED STATES PATENT AND TRADEMARK OFFICE

## CERTIFICATE OF CORRECTION

Page 3 of 5

PATENT NO. : 7,020,125  
 APPLICATION NO.: 09/878,586  
 ISSUE DATE : March 28, 2006  
 INVENTOR(S) : Donald L. Schilling

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At column 13, line 33, delete equation and insert therefor

$$-v_o = \sqrt{2P_c} T_b d_o + \sqrt{2P_c} T_b \sum_{i=1}^{n_1} \cos \Theta_i \frac{1}{T_b} \int_b^{\tau_b} c_o(t) c_i(t - \tau_i) dt +$$

$$\sqrt{2P_A} T_b \sum_{j=1}^{n_2} \frac{1}{T_b} \int_b^{\tau_b} c_o(t) \cos \phi_{mj}(t) + \phi_j) dt$$

At column 13, line 54, delete equation and insert therefor  $--I_1 \sqrt{2P_c} \sum_{i=1}^{n_1} \cos \Theta_i \int_b^{\tau_b} c_o(t) c_i(t - \tau_i) dt--$ .

At column 13, line 61, delete equation and insert therefor  $--I_1^2 = \frac{1}{2}(2P_c) \left[ \sum_{i=1}^{n_1} \int_b^{\tau_b} c_o(t) c_i(t - \tau_i) dt \right]^2 --$ .

At column 14, line 20, after the word "illustrate", delete "of".

At column 14, line 38, of equation, delete " $\int_c^{\tau}$ " and insert therefor  $-- \int_b^{\tau_c} --$ .

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OCT 27 2008

# UNITED STATES PATENT AND TRADEMARK OFFICE

## CERTIFICATE OF CORRECTION

Page 4 of 5

PATENT NO. : 7,020,125  
 APPLICATION NO.: 09/878,586  
 ISSUE DATE : March 28, 2006  
 INVENTOR(S) : Donald L. Schilling

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At column 14, line 65, after the word "assumes", delete " $c_i(t)=\sin [\pi t/(T_c)]$ " and insert therefor --  
 $c_i(t)=\sin [\pi t/(T_c)]$ --.

At column 15, line 3, of equation, delete element " $\frac{\pi T_i}{T_c}$ " and insert therefor -- $\frac{\pi \tau_i}{T_c}$ --.

At column 15, line 20, of equation, delete element " $(t_i)$ " and insert therefor -- $(t)$ --.

At column 15, line 25, after the word "If", delete " $c'_i(t) = 1-\cos[2\pi t/(T_c)]$ " and insert therefor  
 --  $c'_i(t) = 1-\cos[2\pi t/(T_c)]$ --.

At column 15, line 27, after the words "power in", delete " $I_j$ " and insert therefor -- $I_i$ --.

At column 16, lines 56 & 57, after the words "with a", delete " $BER=10^{-2}$ " and insert therefor  
 -- $BER=10^{-2}$ --.

At column 17, line 52, before the word "base", delete "spectrums" and insert therefor --spectrum's--.

At column 17, line 65, after the word "For", delete "a" and insert therefor --an--.

At column 18, line 31, after the first use of the word "equation", delete "from the equation".

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**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**Page 5 of 5

PATENT NO. : 7,020,125  
APPLICATION NO.: 09/878,586  
ISSUE DATE : March 28, 2006  
INVENTOR(S) : Donald L. Schilling

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At column 18, line 67, after the word "band", delete "become" and insert therefor -- becomes--.

At column 19, line 5, after the word "greater", delete "then" and insert therefor --than--.

At column 19, line 21, after the word "higher", delete "then" and insert therefor --than--.

At column 19, line 24, after the word "station", insert --is--.

At column 19, line 52, before the word "ratio", delete "interfere" and insert therefor --interference--.

At column 20, line 7, after the word "filter", delete "333" and insert therefor --333--.

**IN THE CLAIMS**

At claim 2, column 21, line 9, after the word "band" delete "used" and insert therefor --user--.

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